DWG. NO . MC-ISIL-1562-02.01 REV 0

1NI-021L-B

1NI-021L-B

1NI-021L-B

1NI-021L-B

1NI-060L-B

1NC-070L-A

1NC-070L-A

NITROGEN SUPPLY HEADER
NI J-3
MCFD-1562-02.00

1NI0072 FC OS

1NI0073

1NI0074 SET AT 700 PSIG

ACCUMULATOR TANK 07

PRIMARY SAMPLE SINK
NM K-10
MC-ISIL-1572-01.01

1NI0330

1C

REACTOR COOLANT DRAIN TANK PUMP
WL C-1
MCFD-1565-01.01

1NI0228 LC

1NI0227

1NI0075 LC

1NI0076A

SS-O

CONTAINMENT FLOOR AND EQUIPMENT SUMP 1A
WL J-6
MCFD-1565-01.02

1NI0077

1NI0078 FC OS

CONTAINMENT FLOOR AND EQUIPMENT SUMP 1A
WL L-6
MCFD-1565-01.02

ACCUM. FILL AND CHECK VALVE TEST
NI L-11
MCFD-1562-02.00

1NI0415

CONTAINMENT FLOOR AND EQUIPMENT SUMP 1A
WL K-6
MCFD-1565-01.02

1NI0830

1NI0829

1NI0828

ND E-14
MCFD-1561-01.00
GATE VALVES 1ND0001B AND 1ND0002A TEST

NI J-9
MCFD-1562-03.01
CHECK VALVES 1NI0165, 1NI0167 1NI0169, 1NI0171 TEST

1NI0825

1NI0826

CHECK VALVE 1NI0157 TEST
NI F-3
MCFD-1562-03.00

CHECK VALVE 1NI0160 TEST
NI B-6
MCFD-1562-03.00

1NI0414

CONTAINMENT FLOOR AND EQUIPMENT SUMP 1A
WL J-6
MCFD-1565-01.02

1NI0079 FC OS

1NI0080 FC OS

1NI0081

1NI0082

NC LOOP 3

NI F-1
MC-ISIL-1562-03.01
NI PUMP DISCH.

NC J-10
MC-ISIL-1553-01.00

1NI0083 FC

1NI0084 FC OS

1NI0085

1NI0086 SET AT 700 PSIG

ACCUMULATOR TANK 08

1D

1NI0331

PRIMARY SAMPLE SINK
NM K-11
MC-ISIL-1572-01.01

REACTOR COOLANT DRAIN TANK PUMP
WL B-1
MCFD-1565-01.01

1NI0230 LC

1NI0229

1NI0087 LC

1NI0088B

SS-O

CONTAINMENT FLOOR AND EQUIPMENT SUMP 1B
WL I-3
MCFD-1565-01.02

1NI0089

1NI0090 FC OS

CONTAINMENT FLOOR AND EQUIPMENT SUMP 1B
WL J-3
MCFD-1565-01.02

CONTAINMENT FLOOR AND EQUIPMENT SUMP 1B
WL K-3
MCFD-1565-01.02

1NI 0835

1NI 0836

1NI0833

1NI0834

1NI0091 FC OS

1NI0092

1NI0093

1NI0094

NC LOOP 4

NI D-1
MC-ISIL-1562-03.01
NI PUMP DISCH.

NC D-9
MC-ISIL-1553-01.00

CHECK VALVE TEST
NI C-7
MCFD-1562-01.00

1NI0809 FC OS

1NI0412

CHECK VALVE 1NI0158 AND 1NI0159 TEST
NI E-4
MCFD-1562-03.00

1NI0289 SET AT 2485 PSIG

1NI0205

1NI0436

1NI0435

1NI0831

1NI0832

CHECK VALVES 1NI0175, 1NI0176 TEST
NI H-10
MCFD-1562-03.01

NI E-10
MCFD-1562-03.01
CHECK VALVES 1NI0180, 1NI0181 TEST

NI K-4
MCFD-1562-03.00
CHECK VALVES 1NI0124, 1NI0128 TEST

NI ACCUMULATOR FILL
NI I-7
MC-ISIL-1562-03.00

ST-K

1NI0095A

1NI0096B

M321

1NI0046

DEMIN. WATER STORAGE TANK
BB L-6
MCFD-1580-01.02

1NI0808 LC

1NI0807

TEST HEADER
NI I-14
MCFD-1562-04.00

W.E.F.T.
WL F-11
MCFD-1565-03.00

1NI0186

1NI0096

1NI0187

1NI0097

1NI0099

FW J-3
MCFD-1571-01.00
R.W.S.T.

S-S-S
STANDBY SHUTDOWN SYSTEM

NOTES:

1. THE ISI EXEMPT BOUNDARIES SHOWN ON THIS DRAWING ARE EXEMPTED BECAUSE THEY SERVE NO SAFETY FUNCTION AS DETERMINED BY SITE ENGINEERING.

COMPONENT	ZONE NUMBER	INSPECTION CRITERIA TYPE OF TEST	PLAN ADDENDUM NO	RI SEGMENT NO
CLASS A SYSTEM	1NC-070L-A	LEAKAGE	N/A	N/A
CLASS B SYSTEM	1NI-021L-B	LEAKAGE	N/A	N/A
CLASS B SYSTEM	1NI-060L-B	LEAKAGE	N/A	N/A

DESIGN PARAMETERS

LINE LISTING	PIPE SPEC.	PRESSURE	TEMPERATURE	CLASS	MATERIAL
BB14	PS 151.4	150 PSIG	120 F	G	SS
FW13	PS 151.4	150 PSIG	114 F	E	SS
NC06	PS 2501.1	2485 PSIG	650 F	A	SS
NI06	PS 2501.4	2485 PSIG	650 F	E	SS
NI13	PS 400.4	700 PSIG	160 F	G	CS
NI14	PS 601.2	700 PSIG	300 F	B	SS
NI15	PS 2501.2	2485 PSIG	650 F	B	SS
NI16	PS 601.4	700 PSIG	300 F	E	SS
NI17	PS 2501.1	2485 PSIG	650 F	A	SS
NI19	PS 2501.2	2485 PSIG	650 F	B	SS
NI20	PS 2501.2	2485 PSIG	300 F	B	SS
NI21	PS 2501.4	2485 PSIG	300 F	E	SS
NM09	PS 601.2	700 PSIG	300 F	B	SS
WL05	PS 601.4	700 PSIG	300 F	E	SS
WL11	PS 151.4	50 PSIG	200 F	E	SS
WL43	TS 270.1.1	100 PSIG	200 F	E	ST

LEGEND

- ISI CLASS 1
- ISI CLASS 2
- ISI CLASS 3
- ISI EXEMPT
- ZONE BOUNDARY

THIS DRAWING IS FOR INSERVICE INSPECTION ONLY AND SHALL NOT BE USED FOR OTHER PURPOSES SUCH AS MAINTENANCE, MODIFICATION, OR REPAIRS. THIS DRAWING SHALL BE REVISED WHEN AS-BUILT CHANGES AFFECT THE INSERVICE INSPECTION BOUNDARIES AND DETAILS OF THE COMPONENTS/SYSTEMS SHOWN.

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE
ORIG	RELEASED FOR ISI USE ONLY	TDM	5-8-01	JMB	5-7-01	RKR	5-9-01

W A IV E D
INSPECTED: CIVIL ELEC. MECH

QA CONDITION 1 AND 2

DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION UNIT 1

ASME SECTION XI
INSERVICE INSPECTION PRESSURE TEST BOUNDARY OF SAFETY INJECTION SYSTEM
(NI)

DESIGNER	TIM MYERS	DATE	5-8-01	INSP	WAIVED	DATE	—
DRAWN	TIM MYERS	DATE	5-8-01	INSP	WAIVED	DATE	—
CHECKED	JIM BOUGHMAN	DATE	5-7-01	APPR	R. KEVIN RHYNE	DATE	5-9-01

SCALE — DWG. NO . MC-ISIL-1562-02.01 REV 0

REFERENCE FLOW DIAGRAM MCFD-1562-02.01 REV. 2
ERN: MC009AVQ

D-120